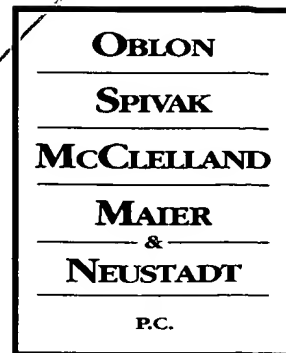




Docket No.: 261122US40



ATTORNEYS AT LAW

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COMMISSIONER FOR PATENTS  
ALEXANDRIA, VIRGINIA 22313

RE: U.S. Patent: 7,109,659  
Issued: September 19, 2006  
Application Serial No.: 10/991,415  
Filing Date: November 19, 2004  
Applicants: Takeshi KAMOI  
For: HIGH-INTENSITY DISCHARGE LAMP BALLAST  
AND METHOD FOR OPERATING HIGH-  
INTENSITY DISCHARGE LAMP  
Group Art Unit: 2821  
Examiner: VO, TUYET THI

SIR:

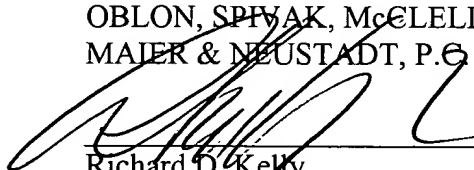
Attached hereto for filing are the following papers:

**Request for Certificate of Correction**  
**Certificate of Correction with Corrected Figure 4 (in duplicate)**

Our check in the amount of \$100.00 is attached covering any required fees. In the event any variance exists between the amount enclosed and the Patent Office charges for filing the above-noted documents, including any fees required under 37 C.F.R. 1.136 for any necessary Extension of Time to make the filing of the attached documents timely, please charge or credit the difference to our Deposit Account No. 15-0030. Further, if these papers are not considered timely filed, then a petition is hereby made under 37 C.F.R. 1.136 for the necessary extension of time. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

OBLON, SPIVAK, McCLELLAND,  
MAIER & NEUSTADT, P.C.

  
Richard D. Kelly

Registration No. 27,757

**Certificate**  
**MAR 12 2007**  
**of Correction**

Customer Number

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Akihiro Yamazaki  
Registration No. 46,155

**MAR 12 2007**



DOCKET NO: 261122US40

**IN THE UNITED STATES PATENT & TRADEMARK OFFICE**

IN RE APPLICATION OF

: PATENT NO: 7,109,659

TAKESHI KAMOI

: SEPTEMBER 19, 2006

SERIAL NO: 10/991,415

: GROUP ART UNIT: 2821

FILED: NOVEMBER 19, 2004

: EXAMINER: VO, TUYET THI

FOR: HIGH-INTENSITY DISCHARGE  
LAMP BALLAST AND METHOD FOR  
OPERATING HIGH-INTENSITY  
DISCHARGE LAMP

**REQUEST FOR CERTIFICATE OF CORRECTION**

COMMISSIONER FOR PATENTS  
ALEXANDRIA, VIRGINIA 22313

SIR:

The following is a request for a Certificate of Correction in Serial Number  
10/991,415, now Patent number 7,109,659 (hereinafter, "the '659 patent").

In accordance with the provisions of Rule 1.322 of the Rules of Practice, which  
implement 35 U.S.C. §255, the Patent Office is respectfully requested to issue a Certificate of  
Correction in the above-identified patent to correct an error of minor character as discussed  
below.

The '659 patent includes Figure 4 which is a sequence diagram showing an operation  
of a high-intensity discharge lamp when a slow leak occurs in the lamp. The '659 patent  
states in column 7, lines 37-67, as follows:

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"In the case of FIG. 4, due to the slow leak in the HID lamp (La), the lamp  
voltage (V<sub>la</sub>) does not reach the threshold voltage (V<sub>sl</sub>). When the time  
measured by the timer circuit 4e2 exceeds the predetermined length of time  
and the detected lamp voltage (V<sub>la</sub>) is still lower than the threshold voltage  
(V<sub>sl</sub>), the slow leak detection circuit 4e determines that there is a slow leak in

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the HID lamp (La) and switches its output from the L signal to the H signal. The switching circuit 4f2 receives this H signal and turns off the buck converter 2 to stop the power supply to the HID Lamp (La). *When the buck converter 2 stops supplying the power to the HID lamp (La), the lamp voltage (Vla) becomes substantially equal to zero.* The voltage comparison circuit 4e1 continues to output the H signal to the OR circuit 6, and thus the TRIAC control circuit 5a supplies the pulse to the TRIAC (Q51) to turn on the TRIAC (Q51). As a result, the auxiliary lamp (IL) remains turned on, receiving the effective voltage substantially equal to the rated voltage of the auxiliary lamp (IL) produced by the phase control of the source voltage (Vs).” (emphasis added)

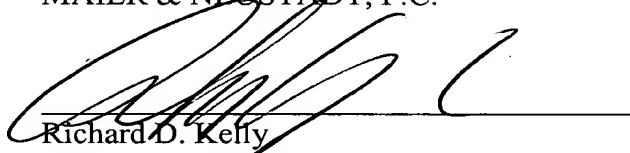
However, the profile of the lamp voltage (Vla) in Figure 4 filed on November 19, 2004, is not consistent with the above descriptions in the ‘659 patent. Specifically, instead of reaching substantially zero as discussed in the specification, the lamp voltage (Vla) continues to increase in Figure 4. Therefore, for the purpose of clarification, Applicant respectfully requests that Figure 4 which appears in the ‘659 patent be replaced with corrected Figure 4 attached herewith.

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Applicant respectfully submits that the aforementioned error in the drawing is of minor character and occurred in good faith, and the correction thereof is not believed to entail re-examination or constitute new matter. If, however, the Examiner disagrees, the Examiner is invited to telephone the undersigned who will be happy to work in a joint effort to derive a mutually satisfactory solution. The required fee in the amount of \$100.00 is submitted herewith, and the requested corrections are listed on Form PTO-1050.

Respectfully submitted,

OBLON, SPIVAK, McCLELLAND,  
MAIER & NEUSTADT, P.C.



Richard D. Kelly  
Attorney of Record  
Registration No. 27,757

Customer Number

**22850**

Tel: (703) 413-3000  
Fax: (703) 413 -2220  
(OSMMN 06/04)

Akihiro Yamazaki  
Registration No. 46,155

RDK/AY/YO/mda  
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**MAR 12 2007**

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 7,109,659  
DATED: September 19, 2006  
INVENTOR(S): Takeshi KAMOI

It is certified that an error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Please replace Fig. 4 with the corrected Fig. 4 attached herewith.

Mailing address of sender:

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**22850**

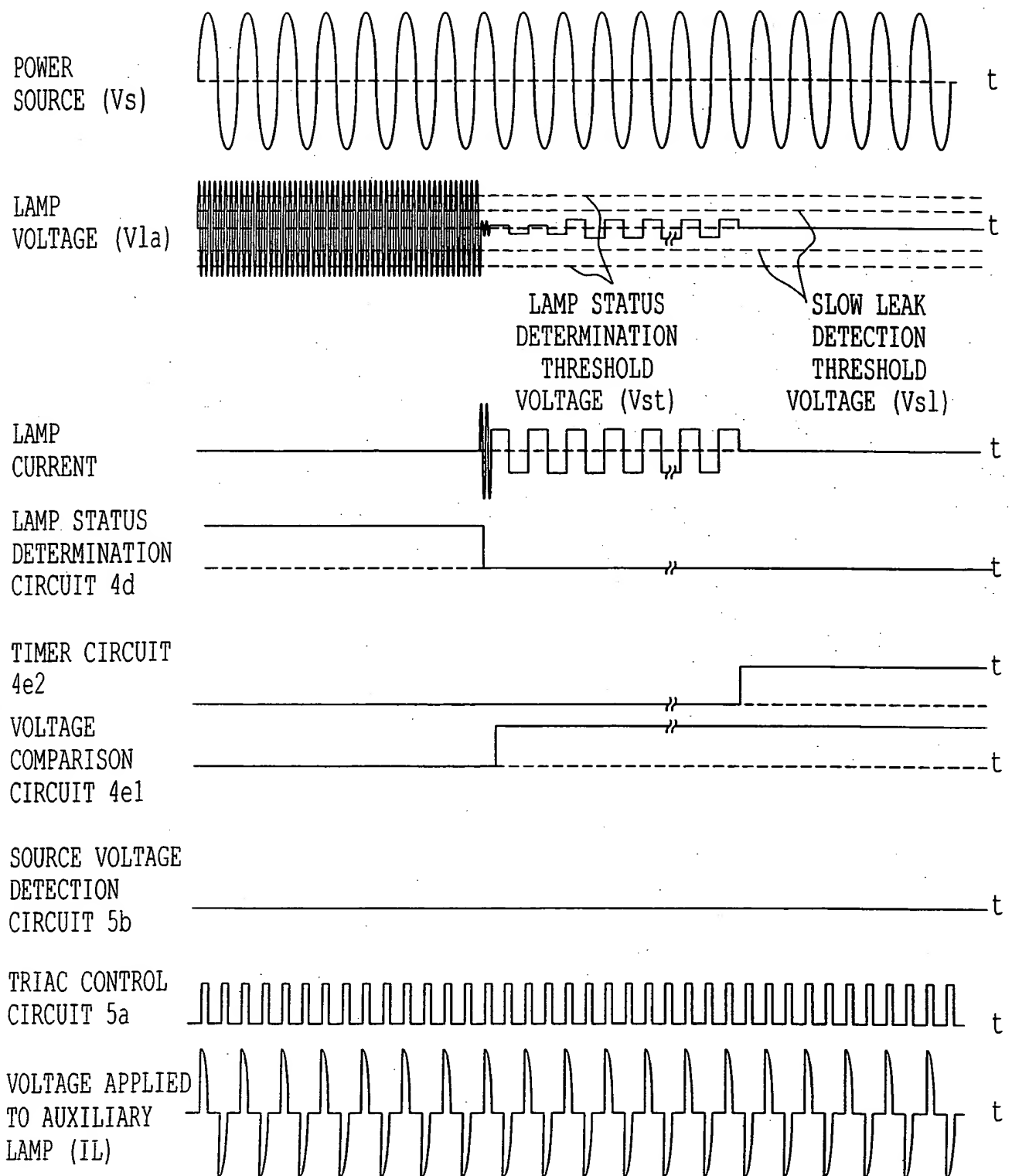
Tel. (703) 413-3000  
Fax. (703) 413-2220  
(OSMMN 03/02)

Patent No. 7,109,659

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**FIG. 4**

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 7,109,659  
DATED: September 19, 2006  
INVENTOR(S): Takeshi KAMOI

It is certified that an error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Please replace Fig. 4 with the corrected Fig. 4 attached herewith.

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Tel. (703) 413-3000  
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Patent No. 7,109,659

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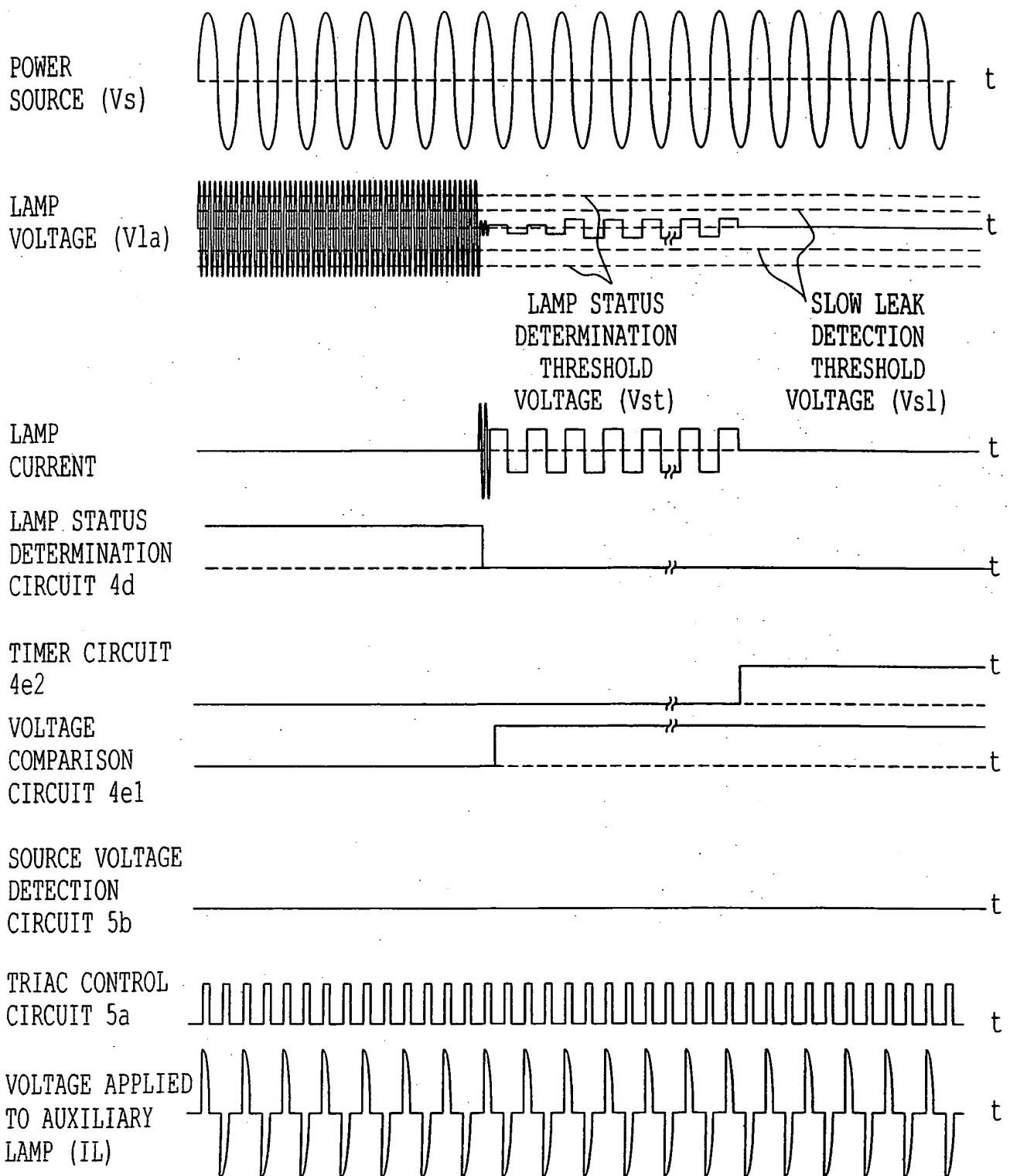


FIG. 4

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